

AMENDMENTS TO THE CLAIMS

Please cancel claims 21-34; amend claims 35 and 37; and add new claims 41 and 42, such that the status of the claims is as follows:

1-34. (Canceled)

35. (Currently Amended) An anisotropic thin film structure comprising:

a substantially planar substrate;

a plurality of atomic layers deposited upon the substrate, each of the plurality of layers being composed of a first atomic component and a second atomic component ballistically separated from the first component, the first component having been deposited from a first deposition direction at a first deposition angle and the second component having been deposited from a second deposition direction substantially opposite the first deposition direction at a second deposition angle, the first and second deposition directions being measured in a plane of the thin film structure and the first and second deposition angles being measured with respect to a vertical line perpendicular to the plane of the thin film structure, the first and second components being characterized by their inability to spontaneously self-assemble; and

a top surface of each of the plurality of layers being characterized by an uneven film topography comprising mounds and valleys, wherein opposing sides of the mounds each tend to collect more atoms of one of the first and second components than the other of the first and second components during simultaneous deposition of the first and second components.

36.(Previously presented) The anisotropic thin film structure of claim 35 wherein the first and second deposition angles are each in a range of about  $60^{\circ}$  to about  $90^{\circ}$ .

37.(Currently Amended) The anisotropic thin film structure of claim 35 wherein the first and second deposition ~~and second~~ angles are each in a range of about  $75^{\circ}$  to about  $90^{\circ}$  ~~and the second deposition angle is in a range of about  $75^{\circ}$  to about  $90^{\circ}$ .~~

38.(Previously presented) The anisotropic thin film structure of claim 35 wherein a deposition rate of the first component is substantially equal to a deposition rate of the second component.

39.(Previously presented) The anisotropic thin film structure of claim 35 wherein a deposition rate of the first component does not equal a deposition rate of the second component.

40.(Previously presented) The anisotropic thin film structure of claim 35 wherein the modulations in the lateral composition of the thin film structure is periodic.

41. (New) The thin film structure of claim 35 wherein a sum of the first and second deposition angles is in a range of about  $90^{\circ}$  to about  $180^{\circ}$ .

42. (New) The thin film structure of claim 35 wherein a sum of the first and second deposition angles is in a range of about  $120^{\circ}$  to about  $180^{\circ}$ .